

1 GGCACGAGGAGATCTAGGTTCAAATTAATGTTGCCCTTAGTGGTAAGGACAGAGACCCCTCAGACTGATGAAATGCGCTCAGAATTACTT
91 AGACAAAGCGGATATTGCCACTCTCTTCCCTTTTCTCTGTGTTTCTGTAGTGAAGAGACCTGAAAGAAAAAAGTAGGAGAACATAATG
* *
181 AGAACAAATACGGTAATCTCTTCAAGTGTCTGGACTTGGGACTTAGGAGGGGCAATGGAGCCGCTTAGTGCCTACATCT
*
271 GACTTGGACTGAAATATAGGTGAGAGACAAGATTGTCTCATATCCGGGGAATCATTAACCTATGACTAGGACGGGAAGAGAAACACATGC
*
361 CTTTACTTCAGTGGGAATCTCGGCCTCAGCCTGCAAGCCCAAGTTTCACAGTGAGAAAAAGCAAGAGAAATAAGCTAATACTCCTGTCTGA
*
451 ACAAGGCACGGCTCCTTGGTAAGCTACTCCTTGATCGATCCTTTGCCACCGGATTGTTCAAAGTGGACCCCGGAGAAAGTCCGAGCA
*
541 AAGAACTTACCACCAAGCAGTCCAAAGAGGGCCAGAAAGCAAACTGGAGGTGAGACCCCAAGAAAGCTGGAACCATGCTGACTTTGTACAC
L E V R P K E S W N H A D F V H 16
631 TGTGAGGACACAGAGTCTGTCTCTGGAAGCCCCAGTGTCAACCGCAGATGAGGAAGTCGGAGGTCCCAATCTGCCCGTGTATGTGGGAC
C E D T E S V P G K P S V N A D E E V G G P Q I C R V C G D 46
721 AAGGCCACTGGCTATCACTTCAATGTCTATGACATGTGAAGGATGCAAGGGCCTTTTCAGGAGGGCCATGAAACGCCAACGCCCGGCTGAGG
K A T G Y H F N V M T C E G C K G F F R R A M K R N A R L R 76
811 TGCCCCCTCCGGAAGGGCCCTGCGAGATCACCCGGAAGACCCGGCGACAGTGCACGGCTGCCGCAAGTGCCTGGAGAGCGGC
C P F R K G A C E I T R K T R R Q C Q A C R L R K C L E S G 106
901 ATGAAGAAGGAGATGATGTCCGACGAGGCCGTGGAGGAGAGCGGCCCTTGATCAAGCGGAAGAAAGTGAACGGACAGGGACTCAG
M K K E M I M S D E A V E E R R A L I K R K K S E R T G T Q 136

FIG. 1A

#5

991 CCACTGGGAGTGCAGGGGCTGACAGAGGAGCAGGGGATGATCATCAGGAGCTGATGGACGCTCAGATGAAAACCTTTGACACTACCTTC
 P L G V Q G L T E E Q R M M I R E L M D A Q M K T F D T T F 166
 1081 TCCCATTTCAAGAAATTTCCGGCTGCCAGGGGTGCTTAGCAGTGGCTGCGAGTTGCCAGAGCCTCTGCAGGCCCCCATCGAGGGAAGAAGCT
 S H F K N F R L P G V L S S G C E L P E P L Q A P S R E E A 196
 1171 GCCAAGTGGAGCCAGGTCCGGAAAGATCTGTGCTCTTTGAAGGTCTCTGCAAGCTGCGGGGGGAGGATGGCAGTGTCTGGAACCTACAA
 A K W S Q V R K D L C S L K V S L Q A A G G G W Q C L E L Q 226
 1261 ACNCCCAGCCGACAGTGGCGGAAAGAGATCTTCTCCCTGCTGCCCCACATGGCTGACATGTCAACCTACATGTTCAAAGGCATCATCAGC
 T P S R Q W R K E I F S L L P H M A D M S T Y M F K G I I S 256
 1351 TTTGCCAAAGTCATCTCCTACTTCAGGGACTTGCCCATCGAGGACCAGATCTCCCTGCTGAAGGGGCGCTTTCGAGCTGTGTCAACTG
 F A K V I S Y F R D L P I E D Q I S L L K G A A F E L C Q L 286
 1441 AGATTCAACACAGTGTTCACGCGGAGACTGGAACCTGGGAGTGTGGCCGGCTGTCTCCTACTGCTTGAAGACACTGCAGGTGGCTTCCAG
 R F N T V F N A E T G T W E C G R L S Y C L E D T A G G F Q 316
 1531 CAACTTCTACTGGAGCCCATGTCTGAATTCACCTACATGCTGAAGAAGCTGCAGCTGCATGAGGAGGATGTGTCTGATGCAGGCCATC
 Q L L L E P M L K F H Y M L K K L Q L H E E E Y V L M Q A I 346
 1621 TCCCTCTTCTCCCCAGACCGCCAGGTGTGCTGCAGCACCGCGTGGTGACCACTGCAGGAGCAATTCCGCCATTACTCTGAAGTCCTAC
 S L F S P D R P G V L Q H R V V D Q L Q E Q F A I T L K S Y 376
 1711 ATTGAATGCAATCGGCCCCAGCCTGCTCATAGTTCTTGTCTTCTGAAGATCATGGCTATGCTCACCGAGCTCCGCAGCATCAATGCTCAG
 I E C N R P Q P A H R F L F L K I M A M L T E L R S I N A Q 406
 1801 CACACCCAGCGGCTGTGGCATCCAGGACATACACCCCTTTGCTACGCCCTCATGTCAGGAGTGTTCGGCATCACAGGTAGCTGAGCG
 H T Q R L L R I Q D I H P F A T P L M Q E L F G I T G S * 434
 1891 GCTGCCTTGGGTGACACCTTCGAGAGGCGCAGACCCAGAGCCCTCTGAGCCGGCACTCCCGGGCCAGACAGATGGACACTGCCAAGA
 1981 GCCGACAATGCCCTGCTGGCCTGTCTCCCTAGGGAATTCCTGTATGACAGCTGGCTAGCATTCCTCAGGAAGGACATGGGGTGCCCC 2068

FIG. 1B

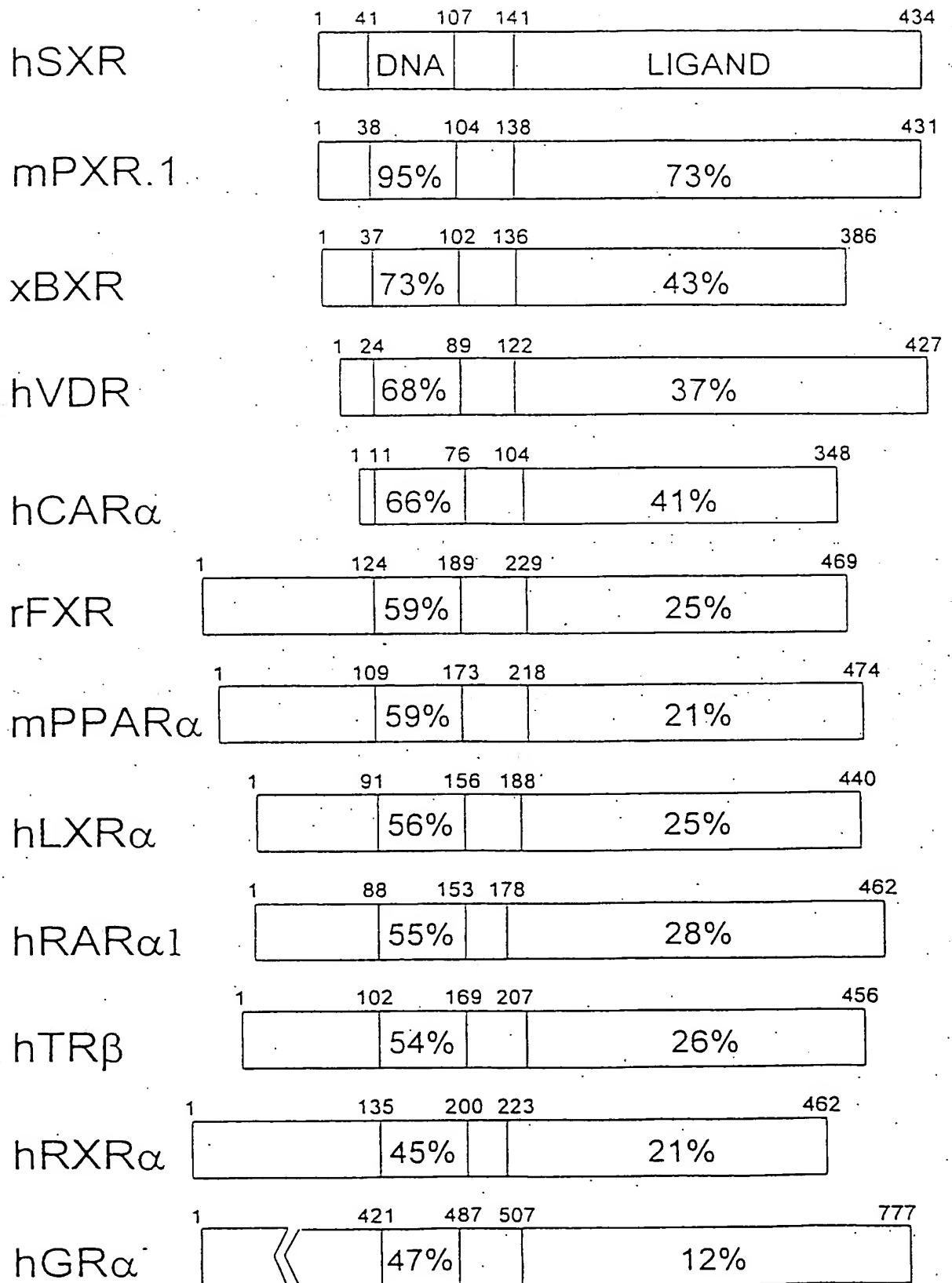
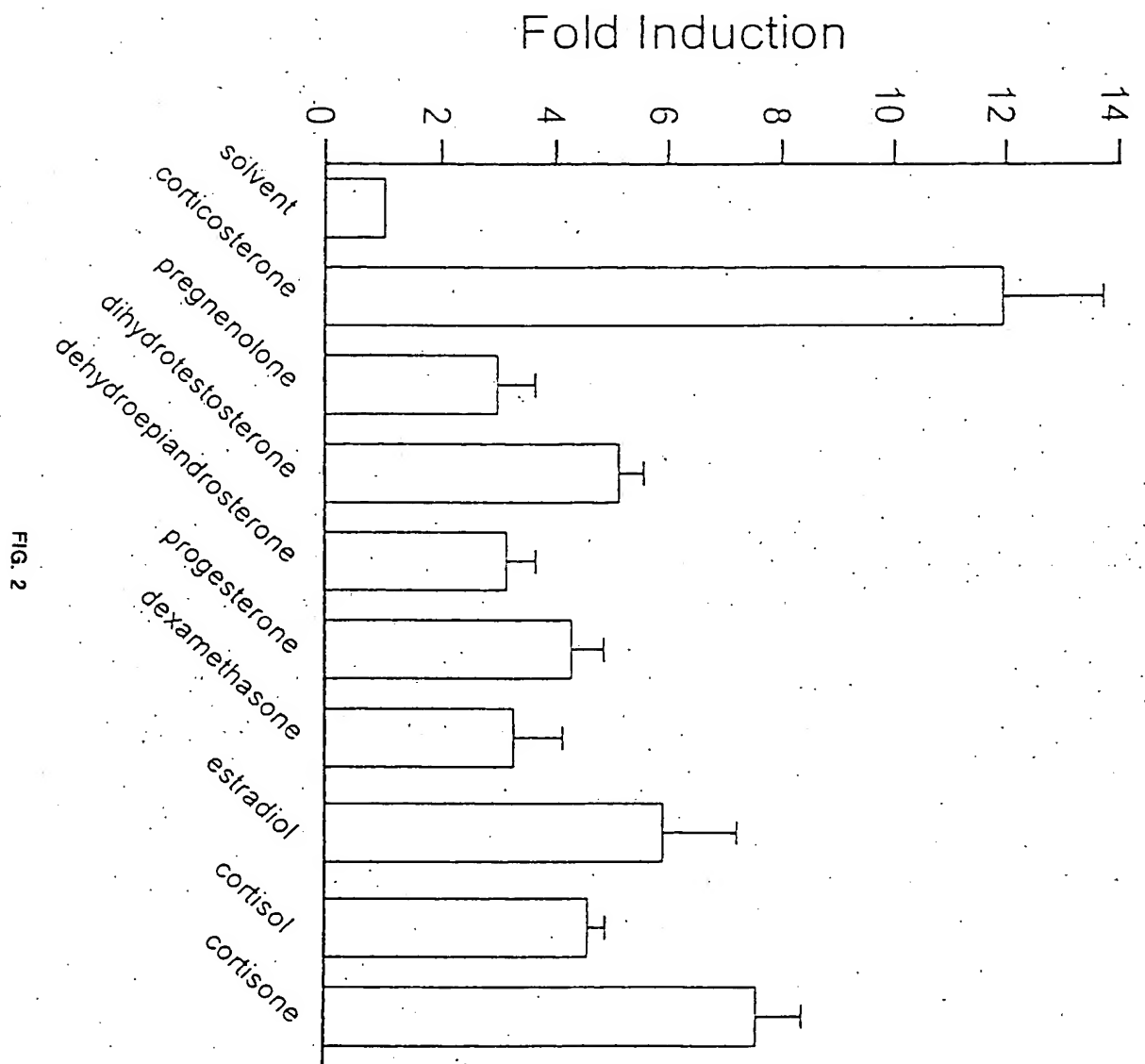
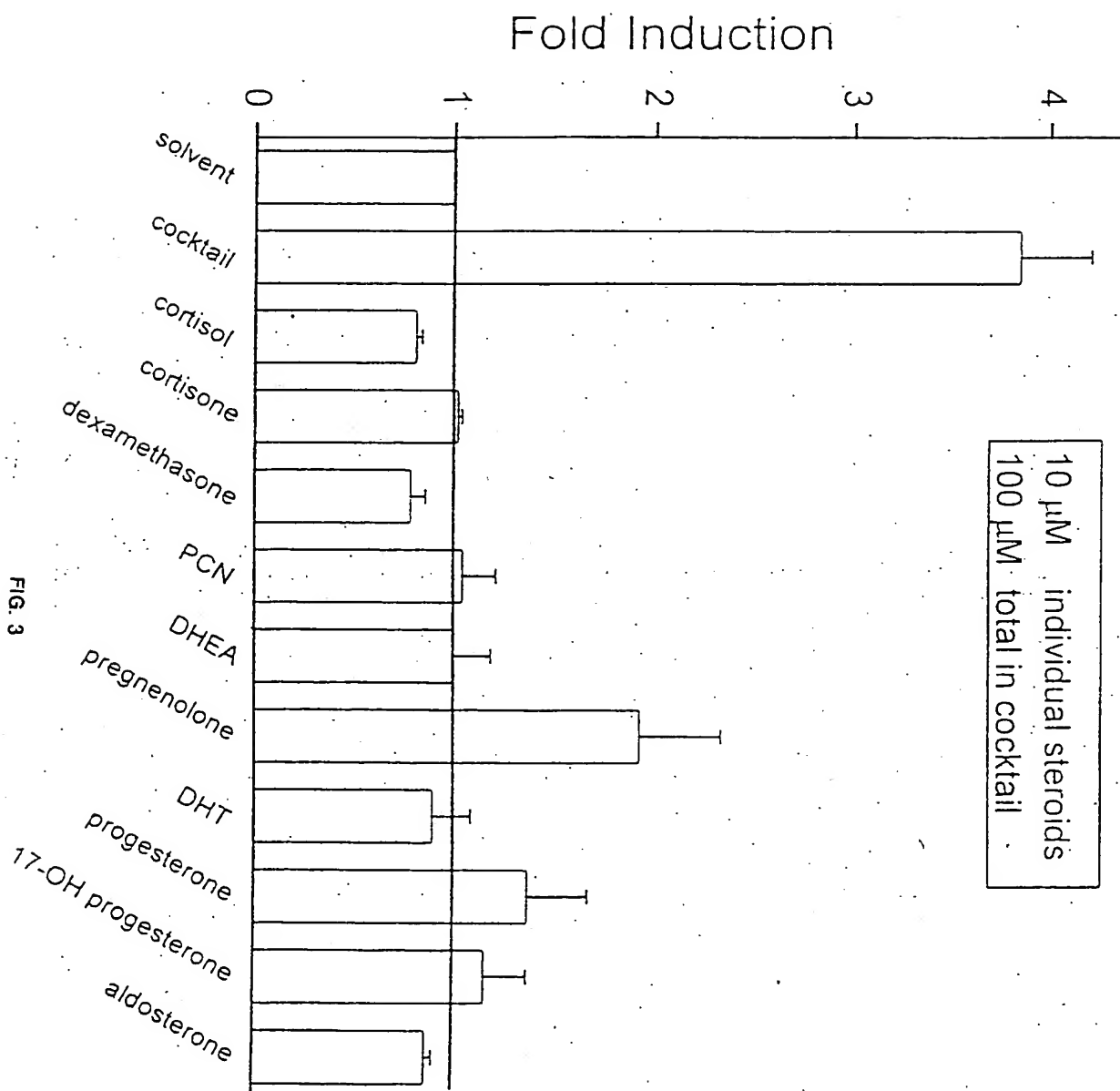


FIG. 1C





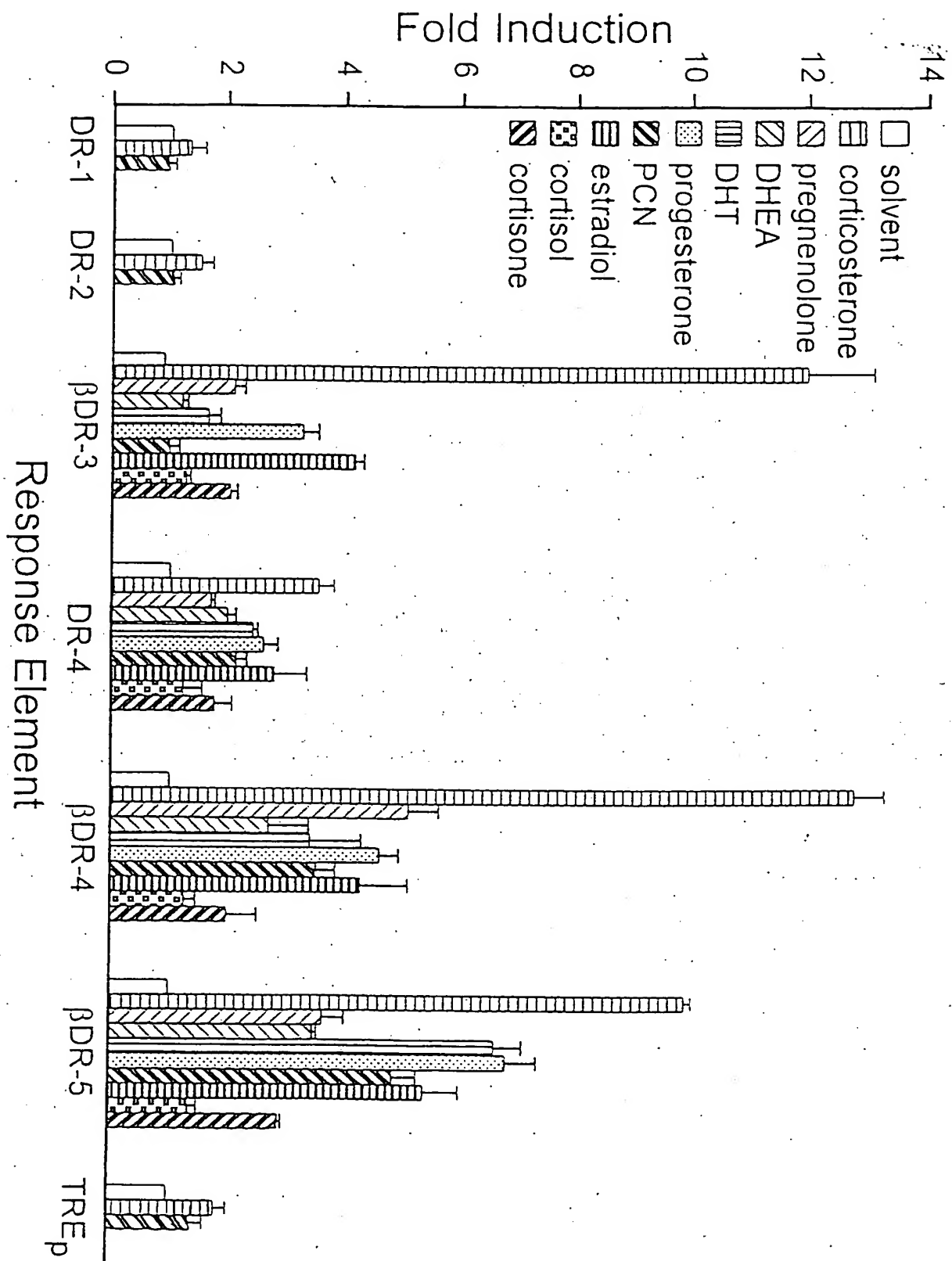


FIG. 4

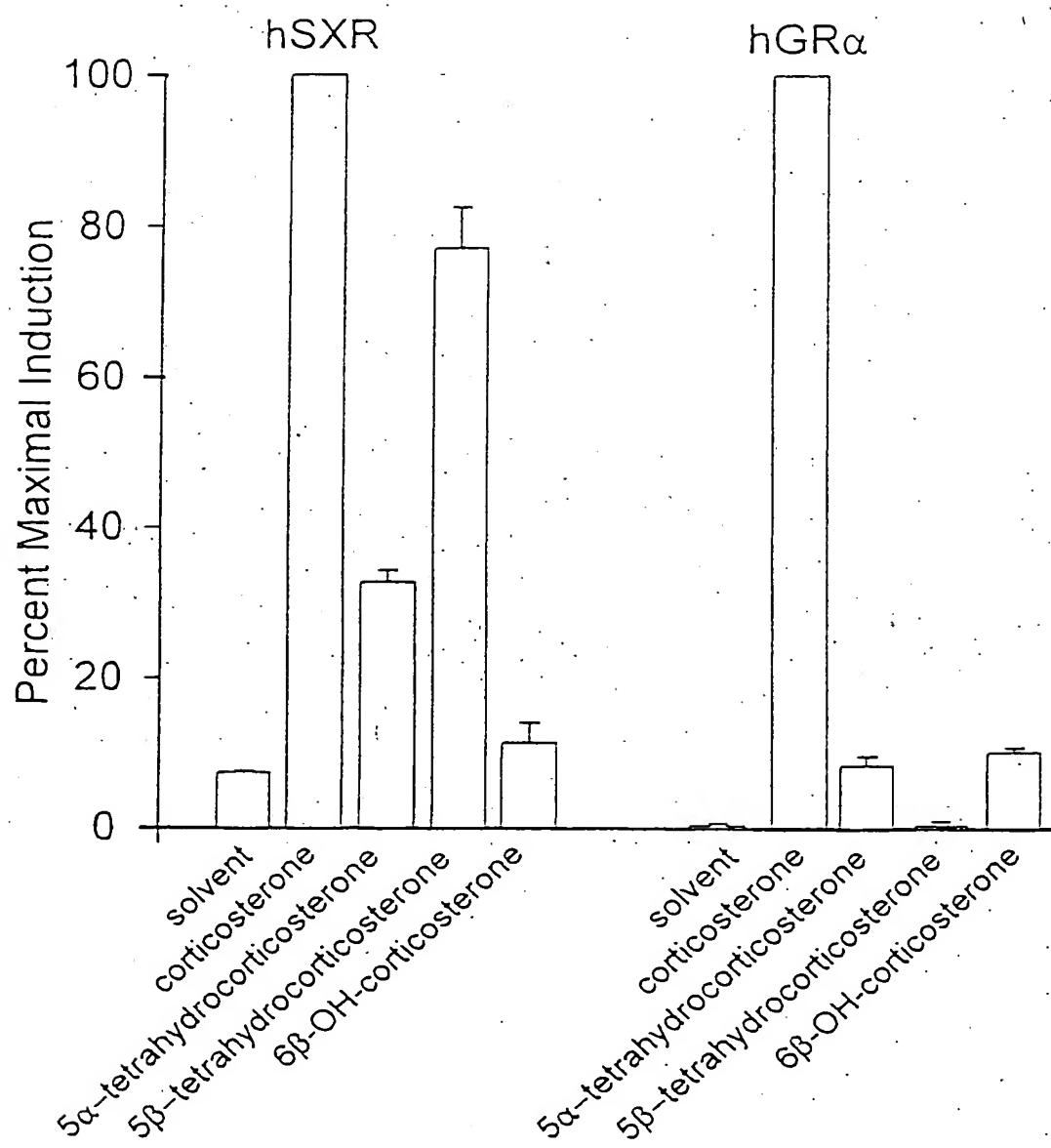


FIG. 5

DR-3	
rCYP3A1	tagac AGTTCA tga AGTTCA tctac
rCYP3A2	taagc AGTTCA taa AGTTCA tctac
rUGT1A6	actgt AGTTCA taa AGTTCA catgg
DR-4	
rbCYP2C1	caatc AGTTCA acag GGTTCa ccaat
rP450R	cac AGGTGA gctg AGGCCA gcagc AGGTCG aaa
DR-5	
rCYP2A1	gtgca GGTTCa actgg AGGTCA acatg
rCYP2A2	gtgct GGTTCa actgg AGGTCA gtatg
rCYP2C6	agtct AGTTCA gtggg GGTTCa gtctt
hCYP2E1	gagat GGTTCa aggaa GGTTCa ttaac

FIG. 6A

CYP3A4 tagaata TGAACCT caaagg AGGTCA gtgagtgg
CYP3A5 tagaata TGAACCT caaagg AGGTAA gcaaaggg
CYP3A7 tagaata TTAACCT caatgg AGGC.A gtgagtgg

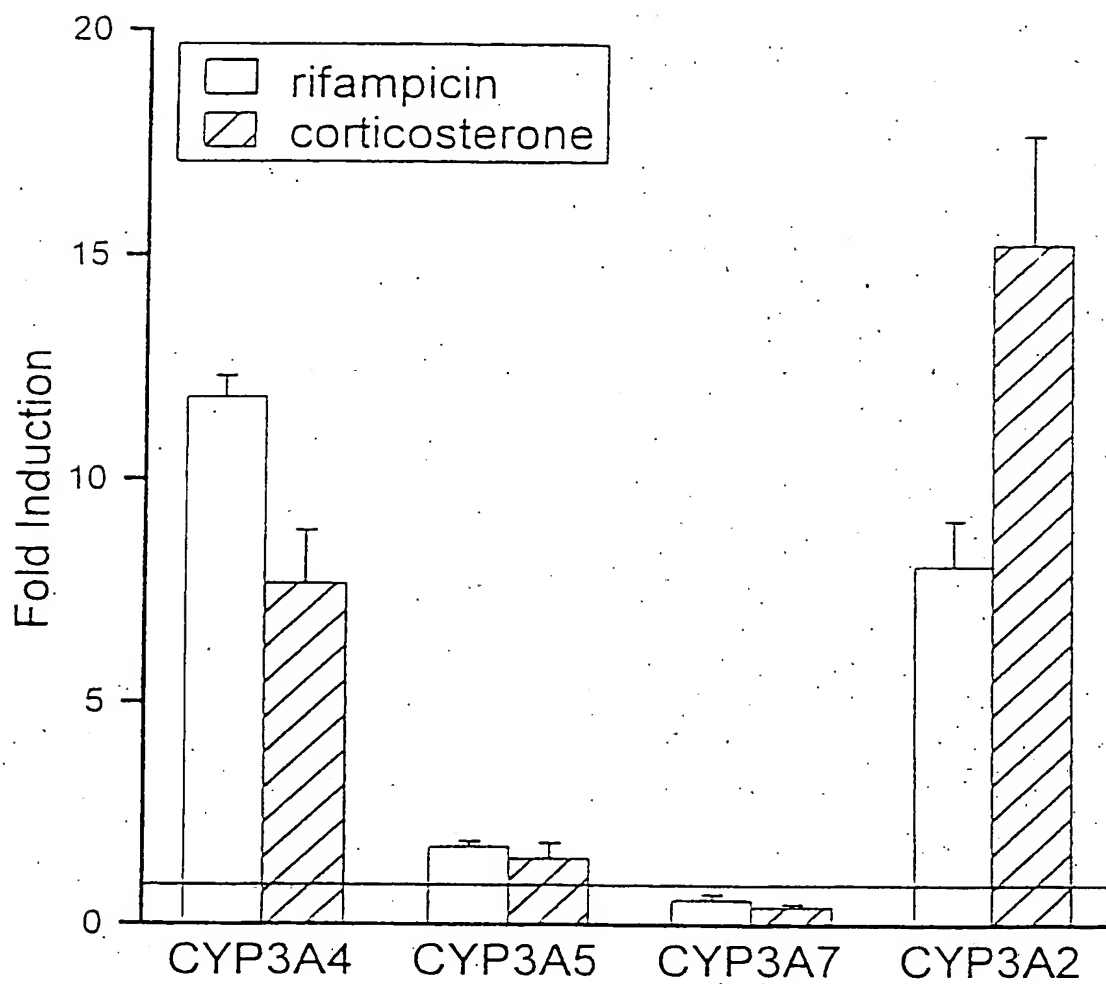


FIG. 6C

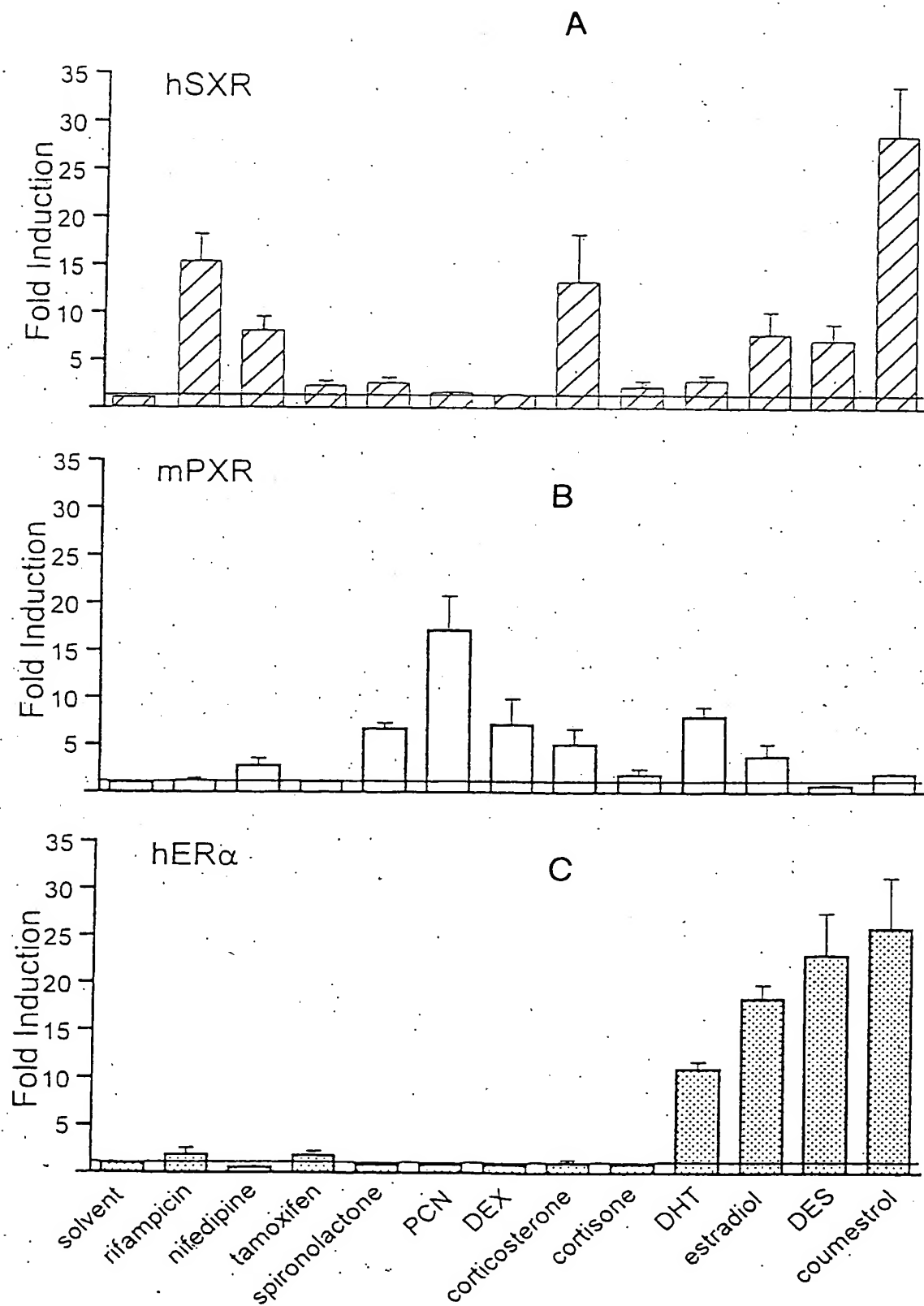


FIG. 7

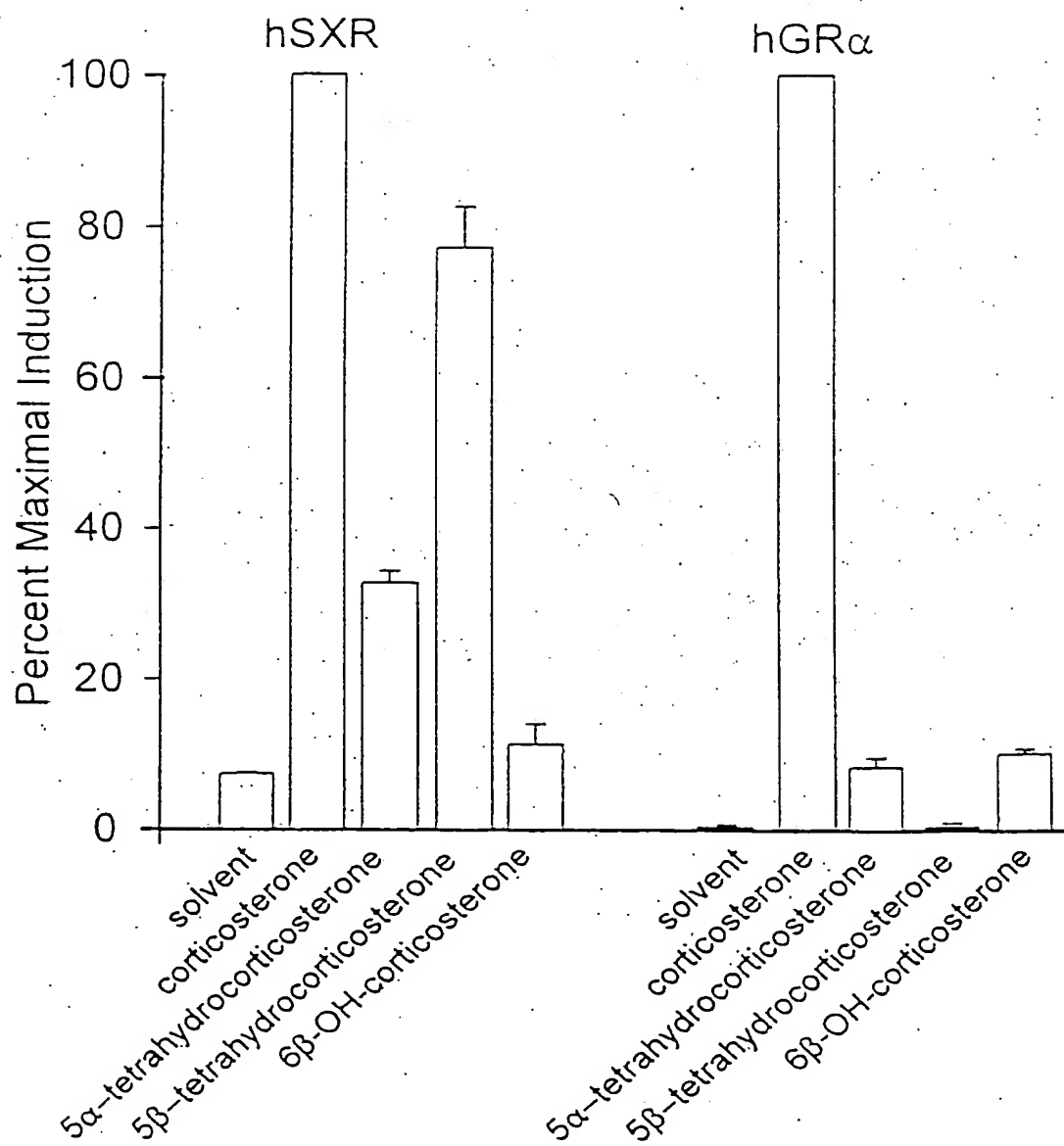


FIG. 7D

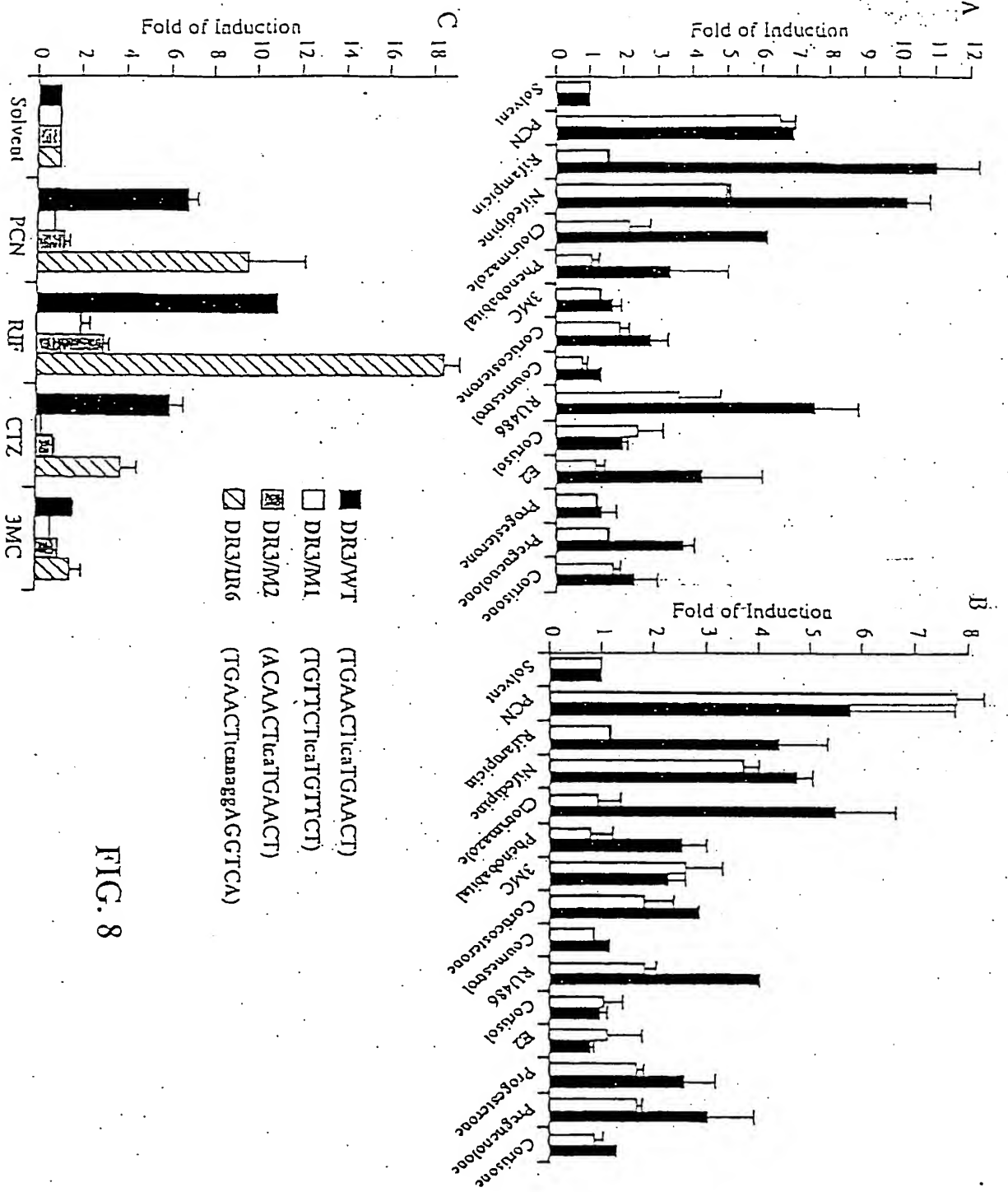


FIG. 8

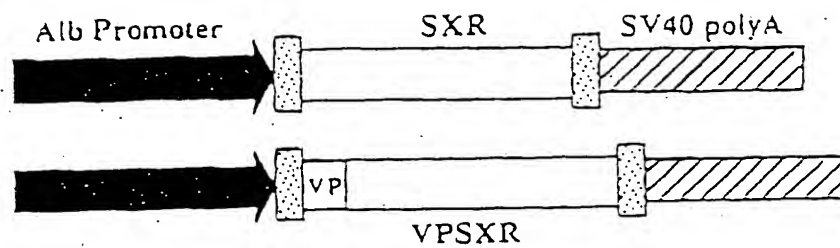


FIG. 9

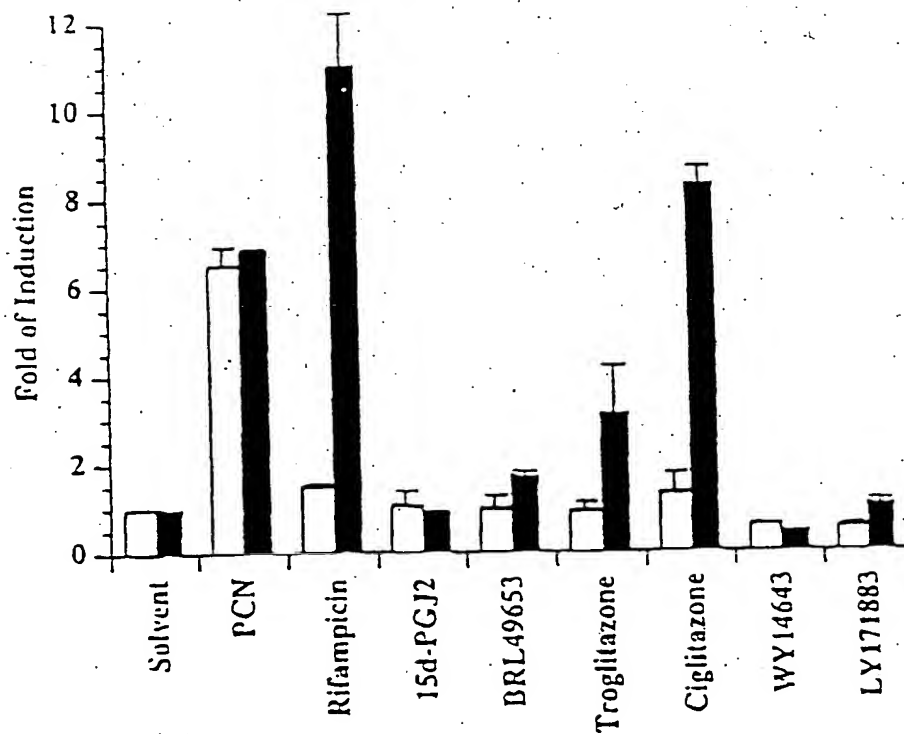


FIG. 10

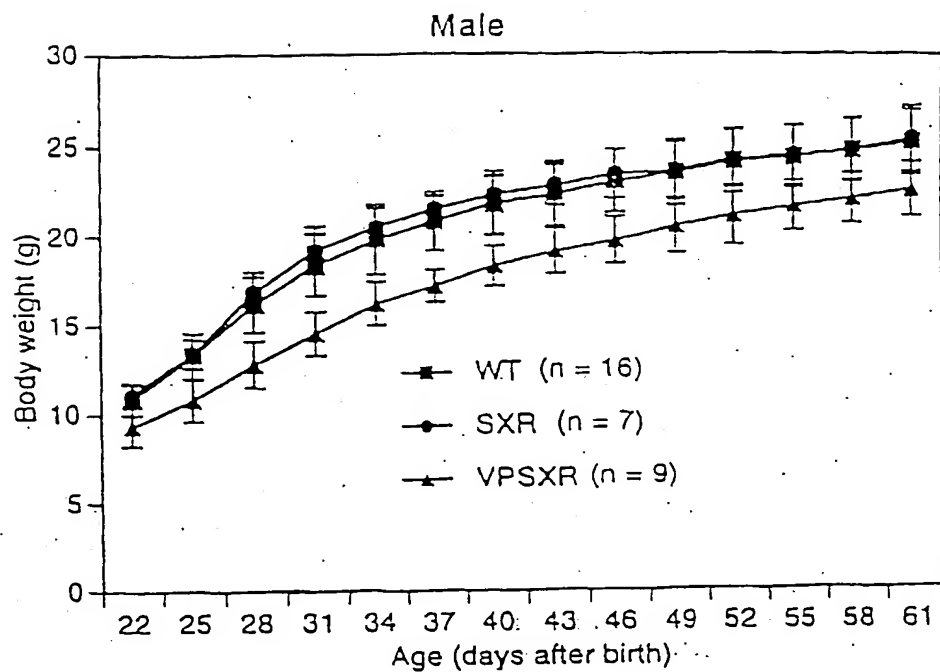


FIG. 11

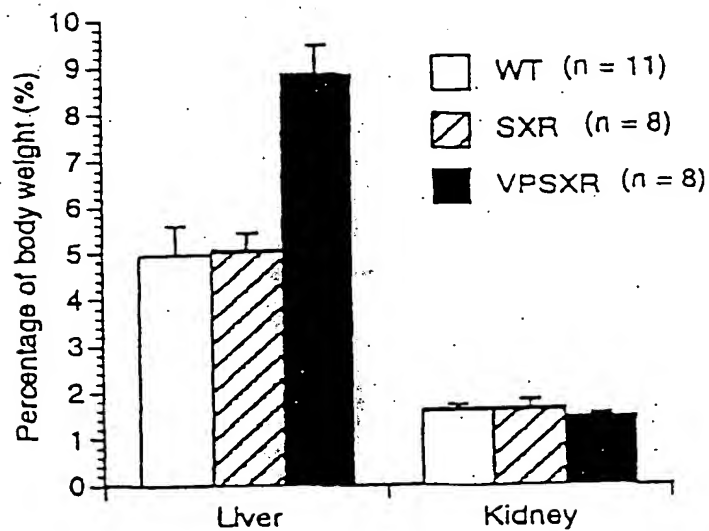


FIG. 12